TEST DATE AND CONDITIONS		
Date	23/01/2025	
Atmospheric Pressure	981	mB
Ambient Temperature	20.3	°C
Environics Serial No.	5089	

GAS DATA LTD
Unit D
Earlplace Business Park
Fletchamstead Highway
Coventry
CV4 9XL
Tel 02476303311 Fax 02476307711

GFM436 Final Inspection & Calibration Check Certificate

Customer	Brownfield Solutions
Certificate Number	125876
Order Number	340981

Serial Number	13233
Software Version	G436-00.0029/0010

Recalibration DUE Date
23/01/26

Instrument Checks					
Keyboard	✓		Display Contrast	✓	
Pump Flow In	500	*Accept > 200 cc/min*	Pump Flow @ -200mB	300	*Accept > 200 cc/min*
Clock Set / Running	✓		Labels Fitted	✓	

Gas Checks						
	CH_4		CO_2		O_2	
	Instrument Gas Readings %	True Gas Value %	Instrument Gas Readings %	True Gas Value %	Instrument Gas Readings %	True Gas Value %
Sensor	60.1	60	39.4	40	20.9	20.9
	Accept ±3.0		*Accept ±3.0*		*Accept ±0.5*	
	5.0	5	5.1	5	6.0	6
	Accept ±0.3		*Accept ±0.3*		*Accept ±0.3*	
Zero Reading 100% N2	0.0	0	0.0	0	0.0	0
	Accept ±0.0		*Accept ±0.0*		*Accept ±0.1*	

Optional Gas Checks						
Applied Gas & Range		Concentration Tested @ (ppm)	Instrument Readings *(ppm)*			
			Zero Reading		Instrument Gas Reading	
Gas Type	Range *(ppm)*					
H2S	5000	*1500*	0	*Accept ±0.0*	1500	*Accept ±5.0%*
CO	2000	*1000*	0	*Accept ±0.0*	995	*Accept ±5.0%*
Hexane	*2.0%*	2.0%	0	*Accept ±0.0*	1.99	*Accept ±10.0%*

Cross Gas Effects									
Applied Gas *(ppm)*		Instrument Readings *(ppm)*							
Gas Type	Concentration	Toxic 1:	H2S	Toxic 2:	CO	Toxic 3:	HEX		
H2S	*1500*	1500		0		0			
CO	*1000*	90		995		0			
Hexane	*2.0%*	0		0		1.99			

Pressure Checks			
Atmospheric Pressure [AP] *(mB)*			
Current Atmospheric Pressure (mB)		Instrument Atmospheric Pressure Reading (mB)	
AP Open Ports		981	*Accept ±2.0*
AP Port (Internal)	*+800 mB*	800	*Accept ±5.0*
	+1200mb	1200	*Accept ±5.0*

Flow Checks					
Borehole Flow			Differential Pressure		
Applied Reading *(l/h)*	Instrument Reading *(l/h)*		Applied Pressure *(Pa)*	Instrument Reading *(Pa)*	
-30	-30.0	*Accept ±3.0*	-396	-395	*Accept ±50*
-3	-3.0	*Accept ±1.0*	-17	-17	*Accept ±6.0*
0	0.0	*Accept ±0.0*	0	0	*Accept ±0.5*
3	3.0	*Accept ±0.5*	15	14	*Accept ±3.0*
30	30.0	*Accept ±3.0*	332	333	*Accept ±50*
60	60.4	*Accept ±6.0*	994	1009	*Accept ±130*
90	90.3	*Accept ±9.0*	1945	1965	*Accept ±250*

Temperature Checks		
Calibration Temperature Applied Temperature ^{0}C	Instrument Temperature Reading ^{0}C	
-10	-10.0	*Accept ±2.0*
0	0.0	*Accept ±1.0*
30	30.0	*Accept ±1.0*
60	60.0	*Accept ±1.0*
100	100.0	*Accept ±1.0*

Technician:	Date Tested:
[redacted]	*23/01/2025*

The instrument identified by the serial number stated above has been tested by Gas Data personnel for calibration accuracy on the date and under the ambient conditions stated. Gas Data Ltd internal BS EN ISO9001:2015, BS EN ISO14001:2015, BS EN ISO45001:2018 compliant workshop procedures were followed to apply known calibration test gases, gas flow rates, pressures and temperatures of the values stated. The results displayed on the instrument at each stage are recorded above.

Gas Data Ltd is certified to BS EN ISO9001:2015, BS EN ISO14001:2015, BS EN ISO45001:2018.

TEST DATE AND CONDITIONS		
Date	23.1.25	
Atmospheric Pressure	981	mB
Ambient Temperature	20.3	°C
Environics Serial No.	5089	

GAS DATA LTD
Unit D
Earlplace Business Park
Fletchamstead Highway
Coventry
CV4 9XL
UK +44 (0) 24 7630 3311

GAS DATA
LISTEN · ANALYSE · INFORM

GFM436-1 OUTWARD INSPECTION & QUALITY CHECK SHEET

INSTRUMENT DETAILS			
SO Number	Instrument Type	Instrument Serial Number + SW Version	Job Number(s)
340981	GFM436	13255 G436-29/10	125876

Calibration Technician ..... [redacted] . **Date** ..23.1.25....

Inspection Technician ..... [redacted] . **Date** ..24.1.25....

INSTRUMENT CHECKS		Pass (P), Fail (F) or not applicable (NA)	INSTRUMENT PACKING LIST			Tick if included
Function Tests	Dust Caps Fitted	P	Instrument			✓
	Keyboard Test (All Keys)	P	Leather Case			✓
	Backlight	P	Instrument Strap			✓
	Clock Set / Running	P	AC Battery Charger (UK)			X
	Comms Test	P	AC Battery Charger (EURO)			X
	Pump Flow Test (In & Out)	P	AC Battery Charger (US)			X
	Overall Leak Test (30mB)	n/a	AC Battery Charger (AUS)			X
	Battery Charge Test	P	Gas Sample Pipe - *(new issue)*			✓
	Service Date set to?	23.1.26	Flow Sample Pipe - *(new issue)*			✓
Channel Tests	Data Logging Enabled?	P	Hard Carry Case			✓
	Verify CH4/LEL/Hexane/PID	P	Spares Pot			X
	Verify CO2	P	Allen Key			X
	Verify O2	P	Temperature Probe			X
	Verify H2S	P	Vane Anemometer			X
	Verify CO	P	USB Cable			X
	Verify LEL	P	USB Memory stick			✓
	Verify 1st Option Gas	N/A	SM V5 Software	Ver	6.05	✓
	Verify Atmospheric pressure	P	Internal Filter Pack	Qty		X
	Verify differential pressure	P	External Filter Pack	Qty		X
	Verify flow	P	Field Guide			X
	Verify temperature probe input	P	**Extra Items:**			
	Verify vane anemometer input	P	Sample Tubes			
DataBase Checks	Jobcard(s) completed and signed	P				
	Jobcard(s) booked off database	P				
	Calibration certificate completed	P				
	Complete & print QI record	n/a				
Label Checks	No. of Calibration label fitted	GDC 13656	**Comments:**			
	MCERTS label displayed	N/A				
	Warranty label fitted	P				
H2S Range	H2S Range from Sales Order	5000 ppm				
	H2S Range from Cal Cert	5000 ppm				
	Over-range value correct?	P				
QA Cylinders Used	No. of High Range CH4/CO2	60194				
	No. of Low Range CH4/CO2/O2	66569				
	No. of H2S	CO37255				
	No. of CO	66503				
	No. of Optional Cylinder	N/A				